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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/646,830	11/09/2000	Yoshifumi Yanagawa	2000_1292A	2000_1292A 1142	
7590 12/17/2004		EXAMINER			
Wenderoth Lind & Ponack Suite 800			BUI, KIEU OANH T		
2033 K Street N	٧W		ART UNIT	PAPER NUMBER	
Washington, DC 20006			2611		
			DATE MAILED: 12/17/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/646,830	YANAGAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
	KIEU-OANH TBUI	2611				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was preply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	_ ·					
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.					
3) Since this application is in condition for allowar closed in accordance with the practice under E	· · · · · · · · · · · · · · · · · · ·					
Disposition of Claims						
4) ☐ Claim(s) 1-33 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-33 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine						
	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the		• •				
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)	🗖					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 03/11/2003. 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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DETAILED ACTION

Abstract

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns,"

"The disclosure defined by this invention," "The disclosure describes," etc.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-33 are rejected under 35 U.S.C. 102(e) as being anticipated by Rostoker et al. (U.S. Patent No. 5,872,784).

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Regarding claim 1, (and in the scope of "target", "controller", and "initiator" as described in the present specifications), Rostoker discloses "a network control system for transmitting data between devices by using plural protocols, in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data, are connected through a transmission line", i.e., a host computer 302 as a first device controls network 301 via an apparatus 300 through transmission line either a telephone line or other transmission medium and a network apparatus 300 or a data server 310 as a second device for handling data including video, audio and information data (see col. 7/line 52 to col. 8/line 39), wherein:

each of the devices includes either or both of:

at least one controller which transmits a message, and at least one target which receives the message and performs processing according to the message, i.e., either the host computer or the network apparatus 300 has at least one controller for transmitting a message and a target or a receiving port for receiving the message (Fig. 3 shows details of the network apparatus 300 with data bus and CPU, see col. 9/line 32 to col. 10/line 43 & Fig. 16 and col. 23/line 59 to col. 26/line 65 for network protocols processing circuits);

said network control system comprises, at least, said controller, said target and an initiator for establishing a connection for data transmission between said controller and said target, i.e., an ATM processing unit as an initiator in establishing a connection for data transmission between the controller and the target or receiving port (Fig. 19 and col. 26/line 33 to col. 28/line 18 shows details of an ATM or APU 500 for this purpose in interfacing with the host);

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said plural protocols comprise:

a first protocol which comprises message transmission for transmitting the message and message response which is a response to the message transmission, and a second protocol for data transmission onto the connection established by the initiator; and said target transmits data onto the connection by the second protocol according to the message received by the first protocol (Fig. 42, and col. 38/line 36 to col. 39/line 23 shows a clear view on multi-protocol processing system for LAN and WAN networks for different protocols as ATM, Ethernet, FDDI, Token Ring etc.).

Regarding claims 2 and 4, Rostoker discloses "a network control system for transmitting data between devices by using plural protocols, in a network in which at least two devices for handling at least one kind of data among video data, audio data and information data, are connected through a transmission line wherein each of the devices includes either or both of; at least one controller which transmits a message and at least one target which receives the message and performs processing according to the message; said network control system comprises, at least, said controller, said target, and an initiator for establishing a connection for data transmission between said controller and said target; said plural protocols comprise; a first protocol which comprises message transmission for transmitting the message and message response which is a response to the message transmission, and a second protocol for data transmission onto the connection; said initiator establishes, before data transmission a connection of the second protocol between the controller and the target; when the controller receives the data from the target, said controller makes a data request by the first protocol; said target transmits the data onto the connection by the second protocol according to the data request; and

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said controller receives the data by the second protocol" (same as in claim 1 above, with the introduction of the data request made by the controller for the first protocol, and transmitting data on the connection by the second protocol according to the data request, with the initiator establishes the connection, this process is performed by Rostoker in processes of Figures 18B, 19, 20, 24, 25, 26 for the system controller checks the transmit request from the client and response for an update and appropriate transmission protocols, and further details on network protocol circuits from col. 23/line 59 to col. 29/line 40 for dynamic switching and intelligent network interfacing methods of Rostoker).

Regarding claims 3 and 5, a network control system for transmitting data between devices by using plural protocols, in a network in which at least two devices for handling at least one kind of data among video data, audio data, and information data are connected through a transmission, wherein: each of the devices includes either or both of; at least one target which receives a message and performs processing according to the message and at least one controller which transmits the message and establishes a connection for data said network control system controller and said target; transmission with the target; comprises, at least, said plural protocols comprise; a first protocol which comprises message transmission for transmitting the message and message response which is a response to the message transmission, and a second protocol for data transmission onto the connection; said controller establishes, before data transmission, a connection of the second protocol to the target; when the controller receives the data from the target, said controller makes a data request by the first protocol; said target transmits the data onto the connection by the second protocol according to the data request; and said controller receives the data by the second protocol" (same as in claim 1 above, with the introduction of the

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data request made by the controller for the first protocol, and transmitting data on the connection by the second protocol according to the data request, with the controller establishes the connection, this process is performed by Rostoker in processes of Figures 18B, 19, 20, 24, 25, 26 for the system controller checks the transmit request from the client and response for an update and appropriate transmission protocols, and further details on network protocol circuits from col. 23/line 59 to col. 29/line 40 for dynamic switching and intelligent network interfacing methods of Rostoker).

As for claim 6, this claim for "a network control system for transmitting data between devices by using plural protocols in a network in which at least two devices for handling at least one kind of data among video data audio data: and information data, are connected through a transmission line, wherein each of the devices comprises at least one of the following units; at least one controller which receives and transmits a message, at least one target which performs processing according to the message and includes at least one internal function control means, a consumer which receives data from the target, and an initiator which establishes a connection for data transmission between the target and the consumer; said network control system comprises, at least, said controller, said target, said consumer: and said initiator; said plural protocols comprise; a first protocol which comprises message transmission for transmitting the message and message response which is a response to the message transmission and a second protocol for data transmission onto the connection; and when said internal function control means performs said data connection, a connection management means in the target connects the output of the internal function control means to the connection of the second protocol, according to a request of the internal function control means" with same limitations as addressed earlier with the

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introduction of "a consumer which receives data from the target" is rejected for the reasons given in the scope of claim 1, with the consumer can be any receiving device and/or at the client's location (as illustrated in Rostoker, Fig. 1), and for the last limitation regarding internal function control means and connection management means (see Rostoker, Fig. 42, and col. 38/line 36 to col. 39/line 22).

As for claim 7, this claim is a combination of claim 5 and 6, and it is rejected for the reasons given in the scope of claims 5 and 6 as discussed above.

As for claim 8, this claim is similar to claims 5-6 above with the introduction of "said controller transmits an identifier indicating the destination in the consumer, to the target, using the first protocol; and said target transmits the data including the identifier which indicates the destination and is received by the first protocol, onto the connection, using the second protocol" is also being disclosed by Rostoker by using packet IDs, headers, pointers, memory for storing pointers and a Direct Memory Access (DMA) for fast addressing the correct destinations or ports in the consumer, to the target, using multi protocol processing techniques including congestion control technique (see Figs. 29, 30, 31, 32, 33, 42, and col. 25/line 22 to col. 26/line 65; and col. 27/line 35 to col. 28/line 59 for memory addressing and congestion control algorithms).

As for claim 9, this claim is similar to claims 5-6 above with the introduction of "said controller transmits the message by the first protocol to a plug through which data is input and output to/from a desired internal function control means; and said target executes the process specified by the message directed to the plug" is also disclosed by Rostoker, i.e., the ports of Rostoker can be regarded as the plug here for which data is input and output to/from a desired internal function control means, and the receiving device or the target executes the process

specified by the message directed to the plug (Figs. 16, 29-33, and col. 31/line 35 to col. 34/line 52 for multi-ports and the multi-protocol processing as addressed above).

As for claim 10, in view of claim 9, Rostoker discloses "wherein said message includes a message for confirming the data transmission by the second protocol" (col. 2/lines 6-34 for acknowledgment messages in the routing and control procedures).

As for claim 11, in view of claim 9, Rostoker discloses "wherein the data transmitted by the second protocol includes version information, and the version of the data is managed by using the version information" (col. 2/lines 6-34 for information related to identities of source, destination, and protocols, and col. 4/lines 39-65 for version information as ATM protocol or MPEG protocol for received signals).

As for claim 12, in view of claim 9, Rostoker shows "wherein the data transmitted by the second protocol is information about a graphical user interface which forces the controller to make a notification to the user" (col. 7/lines 22-50 for software for enhancing visual on graphical user interfaces addressed).

As for claims 13-18, in view of claim 9, Rostoker further shows these claims for "wherein the data transmitted by the second protocol includes attribute information of the data"; "wherein the attribute information includes an identifier size information, and a data section"; "wherein the data transmitted by the second protocol is based on an object as a unit"; "wherein said object has the same structure as attribute information of the data transmitted by the second protocol"; "wherein said object has an identifier, size information and a data section"; "wherein said object has attribute information in the data section" (Figs. 18B, 19, 23A-D, 24, 25, 26, 28-33 & 42 for attributes and attribute information including identifiers as in Figs. 7-9 for packet

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headers and other codes for streams either for transmission or reception, and size information as described in col. 16/line 40 to col. 18/line 53 for video and audio streams with identifiers as

headers, data section and information).

Regarding claims 19-25, these claims with a controller for use within the cited network

control system of claims 1-18 are rejected for the reasons given in the scope of claims 1-18 as

discussed in details above.

Regarding claims 26-32 and 33, these claims with a target and a consumer for use within

the cited network control system of claims 1-18 are rejected for the reasons given in the scope of

claims 1-18 as discussed in details above.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Hales (US Patent 6,288,739 B1), Shaunfield (US Patent 5,867,484), and Rostoker et al (US

Patent 5,668,809) disclose network control systems related to multi-protocol control.

5. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9306, (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II. 2121 Crystal Drive, Arlington. VII., Chieth Floor (Receptionist).

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6. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Krista Kieu-Oanh Bui whose telephone number is (703) 305-0095. The

examiner can normally be reached on Monday-Friday from 9:00 AM to 6:30 PM, with alternate

Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Christopher Grant, can be reached on (703) 305-4755.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to Technology Center 2600 Customer Service Office whose telephone number

is (703) 306-0377.

Krista Bui Art Unit 2611 December 08, 2004 KRISTA BUI

D. Luan W